



FortiWiFi 20C

QuickStart Guide



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Package Contents

Fortinet's consolidated security solutions provide an integrated set of core security and network services in a single, easy-to-manage, high-performance appliance that is capable of supporting a wide range of deployment scenarios.

Your box contains the following:

FortiWiFi 20C

QuickStart Guide (with Wall Mount Template)

Power Adapter

USB Cable

Ethernet Cable

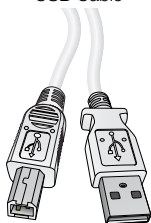
Wall Mount Hardware



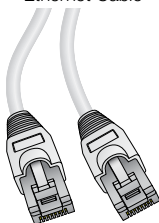
Power Adapter



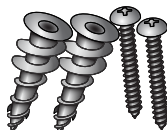
USB Cable



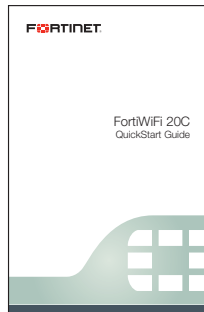
Ethernet Cable



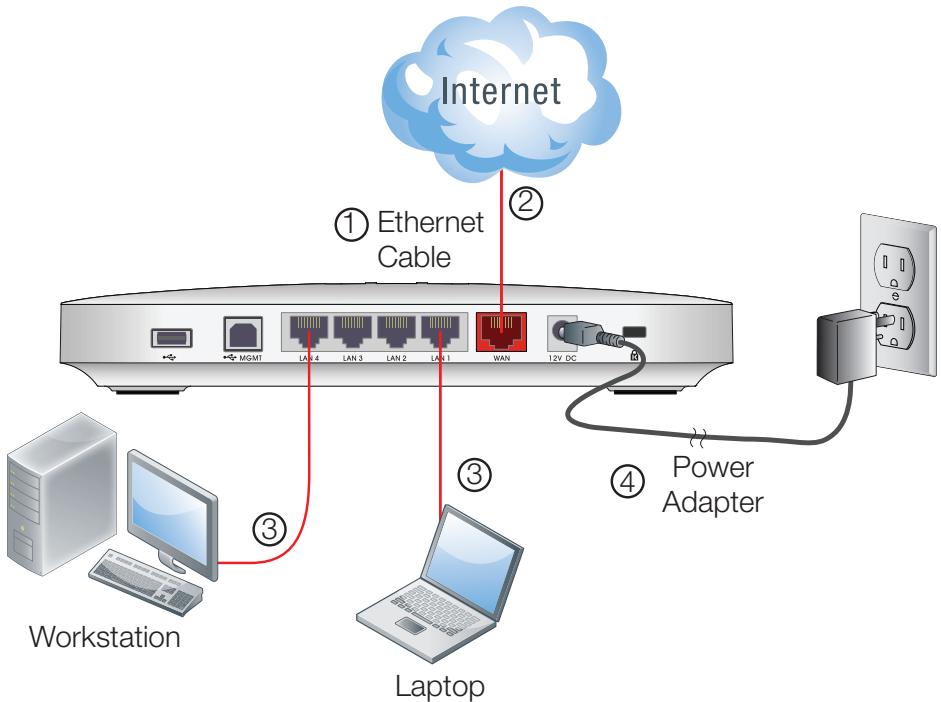
Wall Mount
Hardware



QuickStart Guide



Connecting Your Device



Ensure the FortiWiFi unit is placed on a stable surface prior to initial configuration and installation.

Caution: Electrostatic discharge (ESD) can damage your Fortinet equipment.

Caution: Do not place heavy objects on the unit.

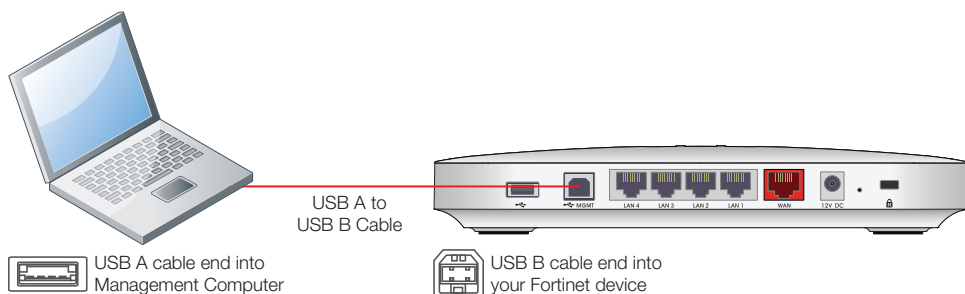
Connect Devices

1. Connect an Ethernet cable to the WAN port.
2. Connect the other end of the Ethernet cable to your network or Internet connection.
3. Connect an Ethernet cable to each computer you wish to connect to the FortiWiFi unit.
4. Connect the power adapter to the FortiWiFi unit and plug the other end of the cable into an electrical outlet.

FortiExplorer

FortiExplorer provides a user-friendly tool that you can use to configure a FortiWiFi unit over a standard USB connection, rather than using a console cable or Ethernet connection.

Caution: Do not connect the USB cable until after FortiExplorer has been installed.



Note: When using FortiExplorer for the first time, ensure the FortiWiFi unit is using its factory default settings.

Installing FortiExplorer

FortiExplorer is available for Microsoft Windows XP, Vista, 7, and 8. It is also available for Mac OS X Snow Leopard and higher.

Microsoft Windows Install

1. Extract the ZIP file (if downloaded) and double-click the .msi, or .exe file and follow the instructions on-screen.
2. Connect the USB cable to the FortiWiFi unit and then to the management computer.
3. The FortiExplorer Easy Configuration Utility opens when the USB cable is connected. Select *Install the hardware automatically* and select *Next*.
4. After a moment, FortiExplorer will launch.

Mac OS Install

1. Double-click the .dmg file and drag the FortiExplorer program file into the Applications folder.
2. Connect the USB cable to the FortiWiFi unit and then to the management computer.
3. Double-click the FortiExplorer icon to launch the application.

Configuration Options

With FortiExplorer, you are provided a number of options on how to configure the FortiWiFi unit, depending on your level of comfort with various interfaces.

Updating FortiExplorer and Firmware

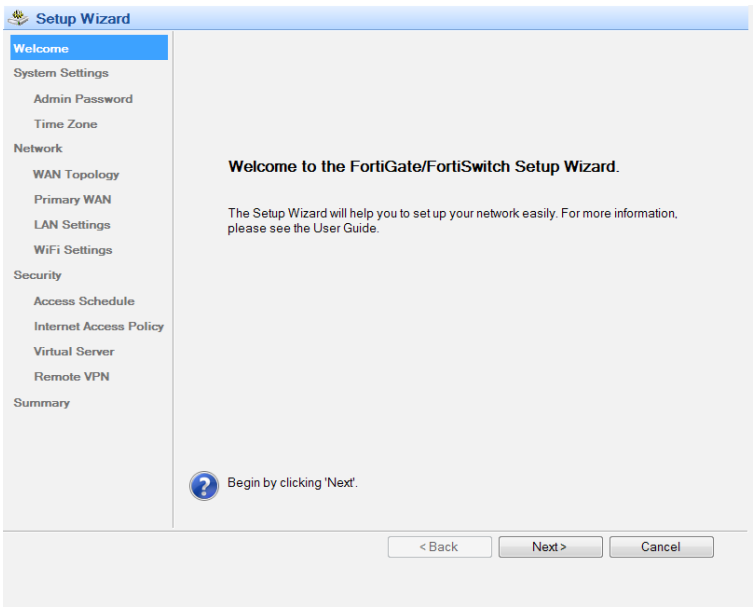
FortiExplorer may be automatically updated from time to time.

You can also use FortiExplorer to check for new firmware for a FortiWiFi unit. To check for new firmware, select the FortiWiFi unit from the device list and select Check for New Firmware. FortiExplorer will also monitor firmware updates for your devices and provide an alert when one is available.

Connecting to the FortiWiFi Unit

The FortiWiFi unit requires some basic configuration to add it to your network. These basic steps include assigning IP addresses, DNS settings, and the default gateway. Until these steps are completed traffic will not flow through the device.

You can complete these basic steps using FortiExplorer's built-in Setup Wizard. The wizard also allows you to change your administrator password, set your time zone, and adjust security settings.



Note: If you are unsure of your network settings, contact your network administrator or internet service provider.

In addition to FortiExplorer, the FortiWiFi unit can be configured using the Web-based Manager or the CLI.

This section will step you through both methods of connecting to the unit. Use whichever method you are most comfortable with.

To Connect to the Web-based Manager or CLI:

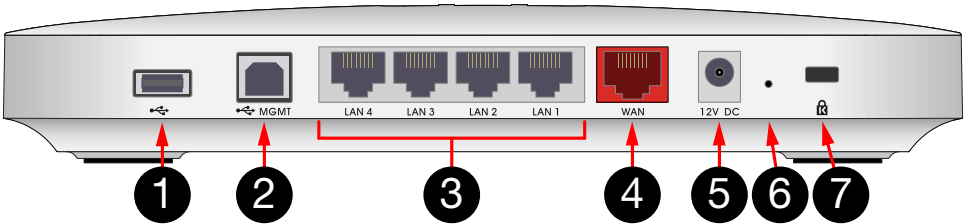
1. Connect the FortiWiFi unit MGMT1 port to a management computer using the provided Ethernet cable.
2. Configure the management computer to be on the same subnet as the internal interface of the FortiWiFi unit:
 - a. Browse to the *Network and Sharing Center > Change Adapter Settings > Local Area Connection Properties > Internet Protocol Version 4 (TCP/IPv4) Properties*.
 - b. Change the IP address of the management computer to 192.168.1.2 and the netmask to 255.255.255.0.
3. To access the FortiWiFi unit Web-based Manager, start a browser of your choice and browse to <https://192.168.1.99> (remember to include the “s” in https://).

To access the FortiWiFi unit CLI, start an SSH client session using a terminal emulator application and enter IP address 192.168.1.99 on port 22.

4. Type `admin` in the *Name* field, leave the *Password* field blank, and select *Login*.

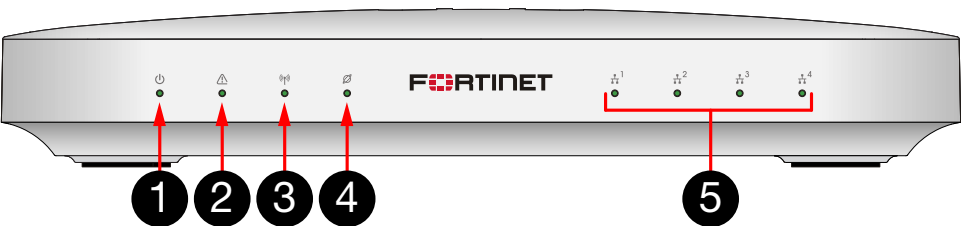
You can now proceed with configuring your FortiWiFi unit.

Technical Specifications



#	Interface	Type	Description
1	USB	USB-A	USB server port for USB key, modem, or management functions.
2	USB MGMT	USB-B	USB client port for management.
3	Ethernet ports 1 - 4	RJ-45	FortiASIC-accelerated switched Ethernet ports for connection to your network and the Internet.
4	WAN	RJ-45	FortiASIC-accelerated Internet connection.
5	Power Connection		100-240V AC, 50-60HZ
6	Reset Button		Hold for 5 seconds to reset the FortiGate-20C to factory default settings.
7	Kensington Security Slot		Anti-theft security slot for attaching a lock-and-cable apparatus.
	WiFi		Dual-band omni-directional radio supports 802.11 a/b/g/n wireless connectivity. Supports all popular encryption standards.

LED Specifications



#	LED	State	Description
1	POWER	Green	The unit is on.
		Off	The unit is off.
2	STATUS	Green	The unit is running normally.
		Flashing Green	The unit is booting.
		Amber	The unit has a fault.
3	WiFi	Flashing Green	Wireless port is active.
		Off	Wireless interface is down.
4	WAN	Green	Port is connected at 1000/100Mbps.
		Amber	Port is connected at 10Mbps.
		Flashing Green	Link activity at 1000/100Mbps.
		Flashing Amber	Link activity at 10Mbps.
		Off	No link established.
5	Ethernet Ports	Green	Port is connected at 1000/100Mbps.
		Amber	Port is connected at 10Mbps.
		Flashing Green	Link activity at 1000/100Mbps.
		Flashing Amber	Link activity at 10Mbps.
		Off	No link established.

Cautions and Warnings

Please review the following cautions and warnings.

Environmental and mounting specifications

Operating temperature: 0 - 40°C (32 - 104°F)

Storage temperature: -25 - 70°C (-13 - 158°F)

Humidity: 20 to 90% non-condensing

Operating Altitude: <2250m (7400ft)

Elevated Operating Ambient: If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (T_{ma}) specified by the manufacturer.

Reduced Air Flow: Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.

Mechanical Loading: Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.

Circuit Overloading: Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

Reliable Earthing: Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).

Federal Communication Commission (FCC) – USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received; including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

WARNING: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 21cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Caution: Operations in the 5.15-5.25GHz band are restricted to indoor usage only.

Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

CAN ICES-3 (B) / NMB-3 (B)

This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Ce dispositif est conforme à la norme CNR-210 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 21cm between the radiator & your body.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 21 cm de distance entre la source de rayonnement et votre corps.

Caution: The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems. High-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Avertissement: Les dispositifs fonctionnant dans la bande 5 150-5 250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux. De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5 250-5 350 MHz et 5 650-5 850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

European Conformity (CE) - EU

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



Grounding

Ensure your Fortinet product is connected and properly grounded to a lightning and surge protector. WAN or LAN connections that enter the premises from outside the building should be connected to an Ethernet CAT5 (10/100 Mb/s) surge protector.

Shielded Twisted Pair (STP) Ethernet cables should be used whenever possible rather than Unshielded Twisted Pair (UTP).

Do not connect or disconnect cables during lightning activity to avoid damage to your Fortinet product or personal injury.

Electrostatic discharge (ESD) can damage Fortinet equipment. Only perform the procedures described in this document from an ESD workstation. If no such station is available, you can provide some ESD protection by wearing an anti-static wrist strap and attaching it to an available ESD connector or other bare metal object.

Note: For DC installations, a readily accessible disconnect device shall be incorporated in the building installation wiring.

Caution: For devices that contain a battery there is a risk of explosion if battery is replaced by an incorrect type. Recycle used batteries according to your local regulations.

警告

本電池如果更換不正確會有爆炸的危險

請依製造商說明書處理用過之電池

Documentation and Links

The following Fortinet web pages provide information and resources for your Fortinet product:

1. Customer Service & Support: <https://support.fortinet.com>

On this page you can create a support account with Fortinet, register and manage your products, download updates, firmware images and release notes, and create technical support tickets.

2. Technical Documentation: <http://docs.fortinet.com>

This page provides the most up-to-date versions of Fortinet publications for the entire family of Fortinet products. The following guides more information on the installation and configuration of your FortiWiFi unit:

- **Hardware Guide:** This guide describes how to mount your FortiGate unit, hardware acceleration, and configuring Redundant Array of Independent Disks (RAID).
- **System Administration Guide:** This guide describes initial configuration of your FortiGate unit, centralized management, tightening security, best practices, and configuration examples.
- **UTM Guide:** This guide includes examples and step-by-step instructions for the UTM features available on your FortiGate unit, such as AntiVirus, intrusion prevention system (IPS), web and email filtering, Data Leak Prevention (DLP), and application control.
- **Troubleshooting Guide:** This guide describes the troubleshooting process and best practice concepts, how Fortinet Support operates, and diagnostic commands in the CLI.

3. Knowledge Base: <http://kb.fortinet.com>

This page provides Fortinet technical documentation, such as troubleshooting, how-to articles, example configurations, FAQs, technical notes, and more.

4. Technical Discussion Forums: <https://support.fortinet.com/forum>

This page allows you to communicate with other customers and Fortinet partners about Fortinet products, services, and configuration issues in a forum environment.

5. Training Services: <http://training.fortinet.com>

This page provides course descriptions, availability, schedules, and locations of training programs in your area.

6. FortiGuard Threat Research and Response: <http://www.fortiguard.com>

This page provides up-to-date information on vulnerabilities and threats, and includes a virus scanner, Internet Protocol (IP) signature look-up, web filtering tools, and related information.

Comments on Technical Documentation

Please send comments or information about any errors or omissions in this or any Fortinet technical documents to techdoc@fortinet.com.

Register Your Product

If you did not register your Fortinet product using the FortiExplorer wizard, please register your product now.

Register

Register your Fortinet product in order to receive:

- Technical Support
- New product features
- Protection from new threats

Enregistrer

Vous devez enregistrer le produit pour recevoir:

- Support technique
- Nouvelles fonctionnalités du produit
- Protection contre de nouvelles menaces

Registra

La reistrazione ti permette di usufruire di:

- Supporto Tecnico
- Nuove funzionalita
- Protezione dalle ultime minacce

Registrar

Debe registrar el producto para recibir:

- Apoyo técnico
- Nuevas funcionalidades del producto
- Protección contra ataques

登録のお願い

本日、フォーティネット製品の登録をしてください。

登録すると次のメリットがあります。

テクニカルサポート・新機能の追加・新しい脅威への防御

请马上注册

您的飞塔产品

您在注册以后才能得到技术支持、新产品特点信息、最新威胁防护

Web: <https://support.fortinet.com/>

Toll free: 1 866 648 4638

Phone: 1 408 486 7899

Fax: 1 408 235 7737

Email: register@fortinet.com

Product License Agreement

Product License Agreement

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Fortinet provides this limited warranty for its product only to the single end-user person or entity that originally purchased the Product from Fortinet or its authorized reseller or distributor and paid for such Product. The warranty is only valid for Products which are registered on Fortinet's Support Website: <https://support.fortinet.com>; or on the TalkSwitch support website: <http://global.talkswitch.com>; or such other website as provided by Fortinet. For the below software warranty to start, registration must take place within three hundred sixty-five (365) days from the date the Product was originally shipped from Fortinet's facilities or the warranty is null and void and will not be honored. For the hardware warranty, such warranty starts on the earlier of the date of Product registration on Fortinet's Support Website or ninety (90) days from the date that the Product was originally shipped from Fortinet's facilities. It is the Fortinet distributor's and reseller's responsibility to make clear to the end user the date the product was originally shipped from Fortinet, and it is the end user's responsibility to understand the original ship date from the party from which the end user purchased the product. All warranty claims must be submitted in writing to Fortinet before the expiration of the warranty term or such claims are waived in full, i.e. ninety (90) days from the earlier of registration or the automatically started term for hardware and spare parts claims and three hundred sixty-five (365) days from registration within three hundred sixty-five (365) days from shipment for software claims. Fortinet provides no warranty for any beta, donation or evaluation Products, for any spare parts not purchased directly from Fortinet by the end-user, for any accessories, or for any stand-alone software.

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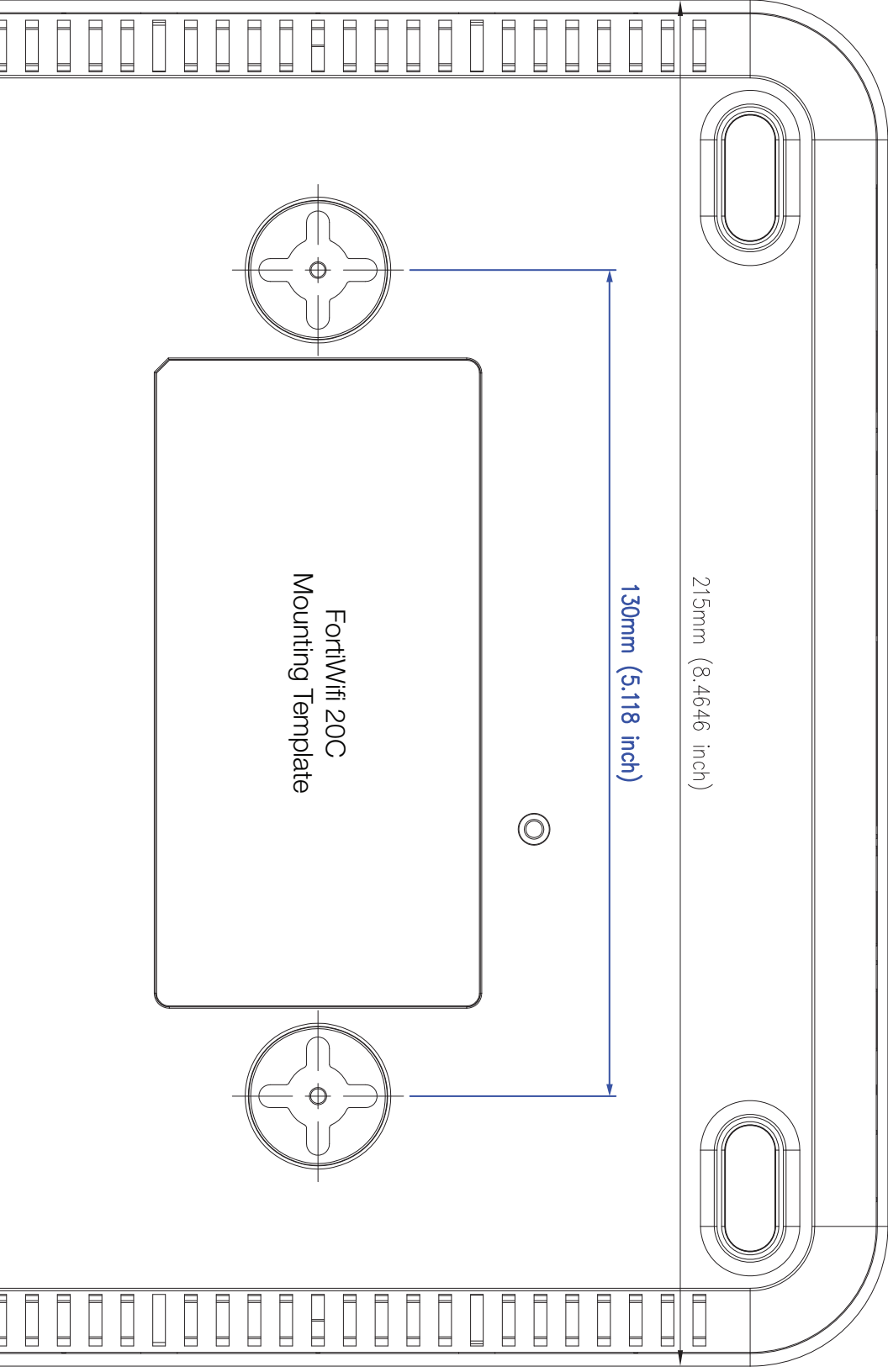
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215mm (8.4646 inch)

130mm (5.118 inch)

FortiWifi 20C
Mounting Template